

# Frozen Fruit, Juice, and Vegetable Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
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## CONTENTS

Introduction to the Economic Census .....	v
Manufacturing .....	ix

### Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002 .....	2
3. Detailed Statistics by Industry: 2002 .....	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002 .....	5
6a. Products Statistics: 2002 and 1997 .....	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	8
7. Materials Consumed by Kind: 2002 and 1997.....	9

### Appendixes

A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	--
E. Metropolitan and Micropolitan Statistical Areas .....	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997 .....	F-1

-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
311411, Frozen fruit, juice, and vegetable manufacturing .....	2002...	151	235	37 939	1 018 448	32 661	62 578	801 688	4 683 155	4 383 644	9 035 140	'343 388
	2001...	N	N	42 454	1 139 322	36 631	70 476	842 172	4 714 144	5 311 510	10 032 135	292 554
	2000...	N	N	43 588	1 105 085	37 650	74 897	825 881	4 772 370	5 045 255	9 822 187	435 572
	1999...	N	N	44 469	1 079 764	38 511	75 489	796 408	4 395 439	4 989 394	9 379 090	574 840
	1998...	N	N	49 461	1 101 281	41 499	82 260	828 926	4 748 750	5 133 536	9 862 524	462 788
	1997...	177	255	46 295	1 047 390	40 130	77 362	790 742	4 507 930	4 995 138	9 549 256	397 733

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments <sup>2</sup>			All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311411, Frozen fruit, juice, and vegetable manufacturing												
United States .....	2	235	176	37 939	1 018 448	32 661	62 578	801 688	4 683 155	4 383 644	9 035 140	1'343 388
California .....	2	44	35	6 881	148 764	5 210	8 742	110 139	541 342	572 723	1 111 898	150 662
Florida .....	1	20	15	1 886	71 508	1 534	3 453	50 448	578 491	640 310	1 219 630	120 568
Idaho .....	3	12	12	4 272	121 413	3 818	7 599	102 972	443 348	448 046	891 527	138 874
Maine .....	3	11	8	942	24 568	824	1 619	20 462	131 326	151 917	283 321	112 203
Michigan .....	—	14	10	728	16 544	641	1 251	12 557	74 363	49 799	124 162	13 028
Minnesota .....	—	5	5	836	22 749	768	1 574	19 779	99 222	116 100	215 334	130 071
New York .....	1	14	9	1 039	25 909	838	1 493	15 734	190 702	157 779	353 382	18 566
Ohio .....	4	3	3	152	4 193	135	254	3 071	12 897	12 389	25 286	11 741
Oregon .....	2	23	19	5 663	146 326	5 025	9 899	113 931	1 017 752	561 574	1 540 376	131 606
Washington .....	2	27	23	6 525	183 029	5 854	11 604	149 520	792 406	712 179	1 505 682	140 719
Wisconsin .....	—	11	10	3 252	97 296	3 020	5 575	85 683	110 878	394 237	505 501	117 257

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>311411, Frozen fruit, juice, and vegetable manufacturing</b>	
Companies <sup>1</sup> .....	number.. 151
All establishments <sup>2</sup> .....	number.. 235
Establishments with 1 to 19 employees .....	number.. 59
Establishments with 20 to 99 employees .....	number.. 73
Establishments with 100 employees or more .....	number.. 103
All employees <sup>3</sup> .....	number.. 37 939
Total compensation .....	\$1,000.. 1 358 279
Annual payroll .....	\$1,000.. 1 018 448
Total fringe benefits .....	\$1,000.. 339 831
Production workers, average for year .....	number.. 32 661
Production workers on March 12 .....	number.. 30 431
Production workers on May 12 .....	number.. 31 322
Production workers on August 12 .....	number.. 36 618
Production workers on November 12 .....	number.. 32 244
Production worker hours .....	1,000.. 62 578
Production worker wages .....	\$1,000.. 801 688
Total cost of materials .....	\$1,000.. 4 383 644
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 3 908 173
Resales .....	\$1,000.. 135 238
Purchased fuels .....	\$1,000.. 129 129
Purchased electricity .....	\$1,000.. 146 979
Contract work .....	\$1,000.. 64 125
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 2 925 970
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 3 412
Total value of shipments .....	\$1,000.. 9 035 140
Primary products value of shipments .....	\$1,000.. 8 384 773
Secondary products value of shipments .....	\$1,000.. 465 503
Total miscellaneous receipts .....	\$1,000.. 184 864
Value of resales .....	\$1,000.. 140 651
Contract receipts .....	\$1,000.. 23 285
Other miscellaneous receipts .....	\$1,000.. 20 928
Primary products specialization ratio .....	percent.. 95
Value of primary products shipments made in all industries .....	\$1,000.. 8 488 134
Value of primary products shipments made in this industry .....	\$1,000.. 8 384 773
Value of primary products shipments made in other industries .....	\$1,000.. 103 361
Coverage ratio .....	percent.. 99
Value added .....	\$1,000.. 4 683 155
Total inventories, beginning of year .....	\$1,000.. 1 641 017
Finished goods inventories .....	\$1,000.. 1 237 014
Work-in-process inventories .....	\$1,000.. 98 497
Materials and supplies inventories .....	\$1,000.. 305 506
Total inventories, end of year .....	\$1,000.. 1 786 673
Finished goods inventories .....	\$1,000.. 1 358 395
Work-in-process inventories .....	\$1,000.. 130 156
Materials and supplies inventories .....	\$1,000.. 298 122
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '3 956 570
Total capital expenditures (new and used) .....	\$1,000.. '343 388
Buildings and other structures (new and used) .....	\$1,000.. '76 696
Machinery and equipment (new and used) .....	\$1,000.. '266 692
Automobiles, trucks, etc., for highway use .....	\$1,000.. '10 649
Computers and peripheral data processing equipment .....	\$1,000.. '27 169
All other expenditures for machinery and equipment .....	\$1,000.. '228 874
Total retirements .....	\$1,000.. '152 326
Gross value of depreciable assets at end of year .....	\$1,000.. '4 147 632
Depreciation charges during year .....	\$1,000.. '241 111
Total rental payments .....	\$1,000.. 61 742
Buildings and other structures .....	\$1,000.. 27 347
Machinery and equipment .....	\$1,000.. 34 395
Total other expenses <sup>4</sup> .....	\$1,000.. 296 266
Response coverage ratio <sup>5</sup> .....	percent.. 73
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 76 475
Communications services <sup>4</sup> .....	\$1,000.. 4 378
Legal services <sup>4</sup> .....	\$1,000.. 3 790
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 2 791
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 17 251
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 1 861
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 16 161
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 4 373
Taxes and license fees <sup>4</sup> .....	\$1,000.. 18 220
All other expenses <sup>4</sup> .....	\$1,000.. 150 967

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311411, Frozen fruit, juice, and vegetable manufacturing											
All establishments .....	2	235	37 939	1 018 448	32 661	62 578	801 688	4 683 155	4 383 644	9 035 140	'343 388
Establishments with—											
1 to 4 employees .....	9	21	36	865	31	54	656	3 201	3 303	6 504	'191
5 to 9 employees .....	4	16	100	3 025	86	164	2 082	14 514	19 332	33 846	'3 865
10 to 19 employees .....	7	22	322	9 647	268	528	6 318	36 083	37 505	73 590	'2 707
20 to 49 employees .....	4	35	1 061	29 345	871	1 785	20 131	140 196	143 756	284 068	'23 441
50 to 99 employees .....	2	38	2 700	76 115	2 193	4 421	52 526	304 549	400 105	705 034	'15 914
100 to 249 employees .....	1	51	8 656	225 056	7 359	13 752	161 673	1 078 915	1 137 025	2 221 270	'120 371
250 to 499 employees .....	2	32	11 756	328 614	10 413	20 984	272 906	1 336 769	1 436 294	2 772 397	'96 117
500 to 999 employees .....	2	18	j	D	D	D	D	D	D	D	D
1,000 to 2,499 employees .....	—	2	h	D	D	D	D	D	D	D	D
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	45	404	10 572	368	709	8 467	42 351	43 724	86 075	'2 515

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
311411	Frozen fruit, juice, and vegetable manufacturing .....	235	37 939	1 018 448	32 661	62 578	801 688	4 683 155	4 383 644	9 035 140	'343 388
3114111	Frozen fruits, juices, ades, drinks, and cocktails.....	60	8 930	236 379	7 021	13 416	172 376	1 215 638	1 419 618	2 632 433	'88 280
3114114	Frozen vegetables.....	91	26 857	726 767	23 755	45 453	586 063	3 228 248	2 787 753	5 985 193	'243 575

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311411	Frozen fruit, juice, and vegetable manufacturing .....	2002.. N 1997.. N	X X	X X	8 488 134 9 264 738
3114111	Frozen fruits, juices, ades, drinks, and cocktails .....	2002.. N 1997.. N	X X	X X	2 559 558 2 822 600
31141111	Frozen fruits .....	2002.. N 1997.. N	X X	X X	706 448 756 363
311411111	Frozen strawberries .....	2002.. 13 1997.. 20	X X	P289.4 394.8	207 012 231 656
311411112	Frozen red sour cherries .....	2002.. 8 1997.. 8	X X	S 70.7	38 677 38 918
311411113	Frozen apples and applesauce .....	2002.. 7 1997.. 16	X X	S 308.9	152 633 155 173
311411114	Frozen berries (blueberries, raspberries, blackberries, etc.) .....	2002.. 15 1997.. 23	X X	S 101.8	100 421 105 195
311411115	Other frozen fruits .....	2002.. 17 1997.. 28	X X	S 276.8	207 705 225 421
31141112	Frozen concentrated orange juice, consumer and institutional, 6 oz or less .....	2002.. N 1997.. N	X X	X X	D 119 538
311411126	Frozen concentrated orange juice, consumer and institutional, 6 oz or less .....	2002.. 3 1997.. 7	X X	D 5 010.4	D 119 538
31141113	Frozen concentrated orange juice, consumer and institutional, 6.1 oz to 12 oz .....	2002.. N 1997.. N	X X	X X	D 364 443
311411137	Frozen concentrated orange juice, consumer and institutional, 6.1 oz to 12 oz .....	2002.. 7 1997.. 10	X X	36.8 S	D 364 443
31141114	Frozen concentrated orange juice, consumer and institutional, 12.1 oz or more .....	2002.. N 1997.. N	X X	X X	104 008 141 025
311411148	Frozen concentrated orange juice, consumer and institutional, 12.1 oz to 24 oz .....	2002.. 5 1997.. 4	X X	S D	77 038 D
311411149	Frozen concentrated orange juice, consumer and institutional, 24.1 oz or more .....	2002.. 4 1997.. 8	X X	S D	26 970 D
31141115	Frozen concentrated orange juice, bulk .....	2002.. N 1997.. N	X X	X X	916 534 939 038
31141115A	Frozen concentrated orange juice, bulk .....	2002.. 13 1997.. 19	X X	S 927.4	916 534 939 038
31141116	Frozen concentrated juices, except orange juice .....	2002.. N 1997.. N	X X	X X	406 980 460 144
31141116B	Frozen concentrated grape juice, 4.1 oz to 7 oz .....	2002.. 3 1997.. 4	X X	S 1 770.1	16 316 18 057
31141116C	Frozen concentrated grape juice, 10.1 oz to 13 oz .....	2002.. 4 1997.. 6	X X	S 1 994.6	17 888 24 643
31141116D	Frozen concentrated grape juice, other sizes .....	2002.. 3 1997.. 7	X X	S 16.9	12 643 15 290
31141116E	Frozen concentrated grapefruit juice .....	2002.. 7 1997.. 14	X X	S 65.0	92 386 89 589
31141116F	Other frozen fruit and berry juices, concentrated .....	2002.. 10 1997.. 14	X X	S 180.4	172 253 184 551
31141116G	Frozen concentrated lemonade, 4.1 oz to 7 oz .....	2002.. 3 1997.. 2	X X	D D	D D
31141116H	Frozen concentrated lemonade, 10.1 oz to 13 oz .....	2002.. 4 1997.. 5	X X	P1.3 D	12 148 D
31141116J	Frozen concentrated lemonade, other sizes .....	2002.. 2 1997.. 4	X X	D 14.6	D 17 242
31141116K	All other frozen concentrated ades, drinks, and cocktails .....	2002.. 4 1997.. 7	X X	S 62.5	24 469 56 537
31141116L	Frozen citrus pulp .....	2002.. 9 1997.. 8	X X	S 95.5	11 292 10 041
3114111Y	Frozen fruits, juices, ades, drinks, and cocktails, nsk .....	2002.. N 1997.. N	X X	X X	75 42 049
3114111YW	Frozen fruits, juices, ades, drinks, and cocktails, nsk .....	2002.. N 1997.. N	X X	X X	75 42 049
3114114	Frozen vegetables .....	2002.. N 1997.. N	X X	X X	5 701 982 6 314 734
31141141	Frozen vegetables (asparagus, green beans, lima beans, broccoli, brussels sprouts, carrots, cauliflower, green peas, and spinach) .....	2002.. N 1997.. N	X X	X X	685 321 782 751
311411411	Frozen asparagus .....	2002.. 8 1997.. 10	X X	S 14.1	19 249 21 778
311411412	Frozen beans (green, regular, and French-cut) .....	2002.. 9 1997.. 19	X X	S 294.6	133 438 156 589
311411413	Frozen lima beans (baby, emerald, and fordhook) .....	2002.. 10 1997.. 14	X X	S 119.5	64 044 65 104
311411414	Frozen broccoli .....	2002.. 10 1997.. 19	X X	S 221.7	122 323 123 347
311411415	Frozen brussels sprouts .....	2002.. 5 1997.. 5	X X	S 33.4	20 485 22 220
311411416	Frozen carrots .....	2002.. 10 1997.. 21	X X	S 336.7	96 057 101 898
311411417	Frozen cauliflower .....	2002.. 5 1997.. 12	X X	S 67.9	31 440 44 674
311411418	Frozen green peas .....	2002.. 11 1997.. 22	X X	S 367.3	151 531 186 711
311411419	Frozen spinach .....	2002.. 5 1997.. 10	X X	P111.1 150.0	46 754 60 430
31141142	Frozen vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.) .....	2002.. N 1997.. N	X X	X X	607 450 609 076
31141142A	Frozen vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.) .....	2002.. 15 1997.. 25	X X	S 930.4	607 450 609 076

See footnotes at end of table.



Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311411	Frozen fruit, juice, and vegetable manufacturing—Con.				
3114114	Frozen vegetables—Con.				
31141143	Frozen French-fried potatoes .....	2002.. N	X	X	2 341 512
		1997.. N	X	X	2 984 066
31141143B1	Frozen French-fried potatoes .....	2002.. 7	X	S	2 341 512
		1997.. 11	X	9 216.6	2 984 066
31141144	Other frozen potato products (patties, puffs, etc.) .....	2002.. N	X	X	524 223
		1997.. N	X	X	544 608
31141144C1	Other frozen potato products (patties, puffs, etc.) .....	2002.. 12	X	S	524 223
		1997.. 22	X	1 085.5	544 608
31141145	Frozen sweet yellow corn, cut and cob .....	2002.. N	X	X	326 083
		1997.. N	X	X	394 123
31141145D1	Frozen sweet yellow corn, cut .....	2002.. 11	X	P453.0	220 135
		1997.. 25	X	561.8	250 883
31141145E1	Frozen sweet yellow corn, cob .....	2002.. 6	X	P319.7	105 948
		1997.. 15	X	399.9	143 240
31141146	Frozen southern greens, onions, and other frozen vegetables .....	2002.. N	X	X	1 079 656
		1997.. N	X	X	988 867
31141146F1	Frozen southern greens (collards, kale, mustard, and turnip) .....	2002.. 3	X	D	D
		1997.. 7	X	116.5	37 782
31141146G1	Frozen onions (rings, diced, chopped, etc.) .....	2002.. 12	X	372.0	D
		1997.. 20	X	496.0	275 420
31141146H1	Other frozen vegetables .....	2002.. 31	X	S	803 991
		1997.. 48	X	941.9	675 665
3114114Y	Frozen vegetables, nsk .....	2002.. N	X	X	137 737
		1997.. N	X	X	11 243
3114114YWV	Frozen vegetables, nsk .....	2002.. N	X	X	137 737
		1997.. N	X	X	11 243
311411W	Frozen fruit, juice, and vegetable manufacturing, nsk, total .....	2002.. N	X	X	226 594
		1997.. N	X	X	127 404
311411WY	Frozen fruit, juice, and vegetable manufacturing, nsk, total .....	2002.. N	X	X	226 594
		1997.. N	X	X	127 404
311411WYWW	Frozen fruit, juice, and vegetable manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	144 019
		1997.. N	X	X	64 569
311411WYWY	Frozen fruit, juice, and vegetable manufacturing, nsk, for administrative-record establishments .....	2002.. N	X	X	82 575
		1997.. N	X	X	62 835

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3114111	Frozen fruits, juices, ades, drinks, and cocktails	
	United States..... 2002..	2 559 558
	..... 1997..	2 822 600
	California ..... 2002..	670 820
	..... 1997..	611 938
	Florida ..... 2002..	1 000 877
	..... 1997..	1 523 425
	Maine ..... 2002..	52 905
	..... 1997..	32 856
	Michigan..... 2002..	206 994
	..... 1997..	86 476
	Oregon ..... 2002..	250 990
	..... 1997..	166 833
	Washington ..... 2002..	178 795
	..... 1997..	100 899
3114114	Frozen vegetables	
	United States..... 2002..	5 701 982
	..... 1997..	6 314 734
	California ..... 2002..	316 556
	..... 1997..	417 525
	Idaho..... 2002..	825 725
	..... 1997..	940 420
	Michigan..... 2002..	26 679
	..... 1997..	56 433
	Minnesota ..... 2002..	211 034
	..... 1997..	207 277
	Oregon ..... 2002..	1 245 431
	..... 1997..	1 139 677
	Washington ..... 2002..	1 292 416
	..... 1997..	1 219 075
	Wisconsin ..... 2002..	479 642
	..... 1997..	613 074

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311411	Frozen fruit, juice, and vegetable manufacturing		
00900001	Total materials .....2002..	X	3 908 173
	.....1997..	X	4 429 724
32222401	Bags (uncoated paper and multiwall) .....2002..	X	2 046
	.....1997..	X	3 055
11131000	Fresh oranges .....1,000 s tons..2002..	S	577 379
	.....1997..	P3 215.2	616 193
11133100	Fresh apples .....1,000 s tons..2002..	S	63 356
	.....1997..	270.8	63 619
11133300	Fresh strawberries .....1,000 s tons..2002..	S	98 343
	.....1997..	P152.4	97 177
11130005	Other fresh fruits (excluding oranges, apples, and strawberries) .....1,000 s tons..2002..	q290.0	196 893
	.....1997..	723.0	199 237
11121901	Fresh green peas .....1,000 s tons..2002..	S	36 917
	.....1997..	P166.5	40 750
11121100	White potatoes .....1,000 s tons..2002..	S	542 148
	.....1997..	5 793.5	597 673
11121905	Fresh sweet corn .....1,000 s tons..2002..	P558.8	73 653
	.....1997..	1 027.3	76 985
11121903	Fresh green (snap) and wax beans .....1,000 s tons..2002..	S	52 190
	.....1997..	234.8	53 660
11100013	All other fresh vegetables (excluding green peas, white potatoes, sweet corn, and green and wax beans (snap)) .....1,000 s tons..2002..	3 547.7	449 540
	.....1997..	2 229.8	584 537
31141101	Frozen fruits for, further processing ..... mil lb..2002..	P434.8	271 164
	.....1997..	282.0	261 641
31141103	Frozen vegetables for further processing ..... mil lb..2002..	q637.5	250 705
	.....1997..	626.9	267 862
31151303	Natural and processed cheese (including imitation and substitutes) ..... mil lb..2002..	S	26 678
	.....1997..	25.2	39 420
31131001	Sugar, cane and beet (sugar solids) .....1,000 s tons..2002..	P15.8	8 175
	.....1997..	N	N
31121101	Wheat flour .....1,000 cwt..2002..	P487.2	7 222
	.....1997..	268.5	6 272
31100019	Fats and oils, all types, purchased ..... mil lb..2002..	363.3	87 779
	.....1997..	582.6	173 611
001900A1	Packaging paper and plastics film, coated and laminated .....2002..	X	119 528
	.....1997..	X	110 869
001900A3	Bags (plastics, foil, and coated paper) .....2002..	X	21 584
	.....1997..	X	27 357
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	139 093
	.....1997..	X	324 831
33243101	Metal cans, lids, and ends .....2002..	X	50 644
	.....1997..	X	66 417
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	249 810
	.....1997..	X	536 358
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	583 326
	.....1997..	X	282 200

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.